



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/765,231
Source: OIPF
Date Processed by STIC: 7/5/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/765,231

DATE: 07/05/2001
 TIME: 11:35:21

Input Set : N:\paola\09765231.txt
 Output Set: N:\CRF3\07032001\I765231.raw

Does Not Comply
 Corrected Diskette Needed

2 <110> APPLICANT: Searle/Monsanto
 3 Phippard, Deborah
 4 Vasanthakamur, Geetha
 5 Dotson, Stanton
 6 Ma, Xiao-Jun
 8 <120> TITLE OF INVENTION: Osteoarthritis tissue-derived nucleic acids, polypeptides,
 9 vectors, and cells
 11 <130> FILE REFERENCE: SO-3221 PR
 13 <140> CURRENT APPLICATION NUMBER: US/09/765,231
 13 <141> CURRENT FILING DATE: 2001-01-18
 13 <160> NUMBER OF SEQ ID NOS: 82

ERRORED SEQUENCES

3483 <210> SEQ ID NO: 82
 3484 <211> LENGTH: 225
 3485 <212> TYPE: DNA
 3486 <213> ORGANISM: Homo sapiens
 3488 <400> SEQUENCE: 82
 3490 ggagaatgtg acatagattt gctggcacat gggtttccta tgagcaaacc ccagaattgg 60
 3492 acacacgtat ctggtgctgc attggaatca tccgaaaaaa ccaaggcttg cattgcatat 120
 3494 ctatctgctg tctgctgaag gagccctgtc tgtgtgccca aggaagtgc atccttgcca 180
 3496 agggctgtcc ctgttcagg agatgaagga gccctgtcta tgtgc 225

E--> 3503

delete at end of file

see p. 2 for more errors

09/765,231 2

<210> 6
<211> 2263
<212> DNA
<213> Homo sapiens

<223> unsure at all n locations
<400> 6

Besides <223>

→ <220>

<221> → These

<222> → mandatory

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

FYI

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

numeric
identifiers
and responses
are needed
whenever

"n" or "Xaa"
is shown
in a sequence.

<220> is a
"header" only -
it has no
response.

See 1.823
Sequence Rules

VERIFICATION SUMMARY

DATE: 07/05/2001

PATENT APPLICATION: US/09/765,231

TIME: 11:35:22

Input Set : N:\paola\09765231.txt

Output Set: N:\CRF3\07032001\I765231.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:251 M:283 W: Missing Blank Line separator, <400> field identifier
L:255 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
L:255 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:255 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:426 M:283 W: Missing Blank Line separator, <400> field identifier
L:430 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:430 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:430 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:432 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:432 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:432 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:708 M:283 W: Missing Blank Line separator, <400> field identifier
L:756 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:756 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:14
L:756 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:14
L:756 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:1139 M:283 W: Missing Blank Line separator, <400> field identifier
L:1141 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21
L:1141 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21
L:1141 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:1432 M:283 W: Missing Blank Line separator, <400> field identifier
L:1458 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:27
L:1458 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:27
L:1458 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:27
L:1458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1635 M:283 W: Missing Blank Line separator, <400> field identifier
L:1641 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:30
L:1641 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:30
L:1641 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:30
L:1641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:2386 M:283 W: Missing Blank Line separator, <400> field identifier
L:2424 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:41
L:2424 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:41
L:2424 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:41
L:2424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:2493 M:283 W: Missing Blank Line separator, <400> field identifier
L:2495 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:42
L:2495 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:42
L:2495 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:42
L:2495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:3080 M:283 W: Missing Blank Line separator, <400> field identifier
L:3082 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:61

VERIFICATION SUMMARY

DATE: 07/05/2001

PATENT APPLICATION: US/09/765,231

TIME: 11:35:22

Input Set : N:\paola\09765231.txt

Output Set: N:\CRF3\07032001\I765231.raw

L:3082 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:61
L:3082 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:61
L:3082 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:3084 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:61
L:3084 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:61
L:3084 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:61
L:3084 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:3411 M:283 W: Missing Blank Line separator, <400> field identifier
L:3415 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:79
L:3415 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:79
L:3415 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:79
L:3415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:3417 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:79
L:3417 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:79
L:3417 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:79
L:3417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:3435 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:79
L:3435 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:79
L:3435 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:79
L:3435 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:3446 M:283 W: Missing Blank Line separator, <400> field identifier
L:3448 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:80
L:3448 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:80
L:3448 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:80
L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:3450 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:80
L:3450 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:80
L:3450 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:80
L:3450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80
L:3503 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:225 SEQ:82